

# **HighSpeedCamera**

Research/Defense/Aerospace

**SMART Series** 



SH2-203

## ■ Product Description

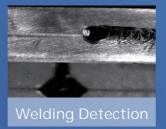
SH2-203 is another masterpiece of Smart series for high-end scientific research and industry in SinceVision's intelligent high-speed camera family, which has a perfect balance of body size and heat dissipation through its 20-layer PCB stacking design and 10Gbps Serdes on-board interconnection technology. At the same time, thanks to the brand new hardware architecture design, it has good environmental adaptability.

## **Features**

- High Definition: 1080P@3200FPS
- Equipped with 10 Gigabit network transmission interface, compatible with Gigabit Ethernet.
- Minimum exposure time 100ns, 150ns dual-exposure time PIV.
- Multiple triggering modes, supporting single recording and multiple event triggering.
- Ultra-Compact Size with Outstanding 200G Shock Resistance.

# ■ Typical Applications







**Drop Test** 



## ■ Specification

SH2-203 Model

Max. Resolution 1920×1080

Full Frame Rate 3200fps

300000fps Max. Frame Rate

Min. Exposure Time 100ns

Cell Size 10µm

Standard RAM 16G/64G/256G/512G/1TB/2TB

Dynamic Range 60dB

×2, ×4, ×8 **Analog Gain** 

Bit Depth 8bit

**PIV Shutter** 150ns

Color Monochrome

ROI Support

Lens Mount E Port, detachable,

> adaptable to F Port, C Port, EF Port

**Data Interface** 10 Gigabit Ethernet,

compatible with Gigabit

Ethernet

ISO30000(M) Sensitivity

ISO10000(C)

Support turning on / off, adaptive rotary Fan Control

speed according to temperature

Standard -10~50°C, below 95%(no Operating Temperature/ condensation), customizable -40~65°C

Humidity wide temperature range version

Video Signal Ethernet / 3G-SDI

Output

Recording Mode Start, End, Center, Random, Manual

Trigger Mode Manual, IO, Image

External Signal Input: trigger (TTL/switch), sync signal,

ready signal, RS422, event signal, IRIG Output: trigger, sync signal, ready signal

DC24V **Power Supply** 

**Dimensions** 89D×72W×72H,

excluding protrusion parts and len mount (excluding lens)

Weight 730g(E-port), 680g(C-port)

**Power Consumption** < 30W

Standard Power cord×1, AC Adaptor×1

Network cable×1, Camera Control Software×1 Accessories

Product Manual×1, Qualified Certificate×1

## Performance

Resolution	Frame Rate	Recording time				
1920×1080	3200FPS	2.5s	10s	2.6min	5.2min	
1920× 720	4800FPS	2.5s	10s	2.6min	5.2min	
1920×512	6800FPS	2.5s	10s	2.6min	5.2min	
1920×256	13500FPS	2.5s	10s	2.6min	5.2min	
1920×128	26200FPS	2.6s	10.4s	2.6min	5.2min	
1920×8	224000FPS	5s	20s	5.1min	10.2min	
1920×4	300000FPS	7.4s	29.6s	7.5min	15.1mi	

X Other memory versions record time accordingly. For example, the 512GB version records half the time of the 1TB version.

### Services

- 1. Technical Support 2. Product Demonstrations
- 3. Consultation Services 4. Maintenance and Calibration
- 5. Programs and Trainings 6. Spare Parts and Accessories
- 7. Customized Solutions 8. After Sales Service Support

#### ■ Contact

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<sup>\*</sup> The above recording time is based on the grayscale 8 bits.